Title (en)
  Stator for motors

Title (de)
  Motorstator

Title (fr)
  Stator de moteur

Publication
  EP 1772944 A2 20070411 (EN)

Application
  EP 06255146 A 20061005

Priority
  JP 2005294044 A 20051006

Abstract (en)
  The present invention provides a stator for motors in which a space volume occupied by the winding wire of an excitation winding section can be increased, thereby allowing magnetic flux to readily flow through the yoke. On an inner peripheral surface portion of the yoke 7, a pair of flat-surface portions 7b are respectively formed in the circumferential direction on either sides of six fitted recesses 7a so that the flat-surface portions are continuous with the inner surfaces of the fitted recesses 7a. The pair of flat-surface portions 7b are located on the same virtual plane and have a side of an identical dimension that extends in the circumferential direction. The inner surface of the fitted recess 7a is constituted by a pair of inclined flat surfaces 7c respectively continuous with the pair of flat-surface portions 7b. The first flange portion 23b of the bobbin 23, which is in contact with the inner peripheral surface of the yoke 7, includes a flat plate-like body 23d and a pair of ribs 23e. With the excitation winding section 5 being mounted onto the stator core 3, the pair of ribs 23e are fitted into a pair of spaces 19 formed between the yoke 7 and the magnetic pole constituent member 9.

IPC 8 full level
  H02K 1/14 (2006.01)

CPC (source: EP KR US)
  H02K 1/12 (2013.01 - KR); **H02K 1/148** (2013.01 - EP US)

Citation (applicant)
  • JP 2816698 B2 19981027
  • DE 19961339 A1 20010705 - SIEMENS AG [DE]
  • EP 0849857 A1 19980624 - SIEMENS AG [DE]

Cited by
  DE102008025512A1; EP1959542A3; US7569965B2

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  AL BA HR MK YU

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